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CENTRAL INTELLIGENCE AGENCY PHOTOGRAPHIC INTELLIGENCE CENTER

JOINT PHOTOGRAPHIC INTELLIGENCE OAK REPORT

ARMY - NAVY - CIA - AIR FORCE

PREFACE

THIS IS AN OAK REPORT INSTALLMENT AND REPRESENTS ONE OF MAN'S FIRST ATTEMPTS TO PRODUCE AN INTELLIGENCE REPORT FROM SATELLITE PHOTOGRAPHY. QUALITY OF UNOBSCURED COVERAGE RANGES FROM GOOD TO VERY GOOD AND INCLUDES APPROXIMATELY 1.5 MILLION SQUARE MILES OF THE SINO-SOVIET BLOC. OF THIS COVERAGE AN ESTIMATED 25 PERCENT IS CLOUD FREE, WITH LIGHT SCATTERED TO HEAVY CLOUDS COVERING THE REMAINDER. BECAUSE OF THE SMALL SCALE WHICH ESTIMATEDLY RANGES FROM 1/300,000 TO 1/450,000, THE NATURE OF THE OPERATING CYCLE, AND THE CHARACTERISTICS OF THE PANORAMIC PHOTOGRAPHY ACHIEVED, IT IS EXPECTED THAT A PRELIMINARY REPORT OF THIS MISSION WILL NOT BE COMPLETED FOR SEVERAL WEEKS. AVERAGE GROUND OBJECT RESOLUTION IS ESTIMATED IN THE ORDER OF 20 TO 30 FEET ON THE SIDE.

EVEN IN PRELIMINARY EXPLOITATION CLOSE COLLABORATION IS REQUIRED AMONG THE PHOTO INTERPRETERS, PHOTOGRAMMETRISTS, PHOTO LABORATORY PERSONNEL, SCIENTIFIC INTELLIGENCE AND COLLATERAL DATA SPECIALISTS. BECAUSE OF THE PECULIAR MENSURATION PROBLEMS POSED BY THE MATERIAL, ALL MEASUREMENTS NOTED HEREIN SHOULD BE TREATED AS TENTATIVE UNTIL FULL PHOTOGRAMMETRIC ANALYSIS CAN BE ACCOMPLISHED. THE AMOUNT OF GEOGRAPHIC—ECONOMIC DATA AND THE NUMBER OF INTELLIGENCE TARGETS ARE CONSIDERABLE, AND THE POTENTIAL USE OF THE MATERIAL FOR CHARTING AND POSSIBLE GEODETIC ASSISTANCE APPEARS TO BE GOOD.

THE MOST STRINGENT USE OF THE NEED TO KNOW PRINCIPLE WITHIN THE SECURITY LIMITATIONS OF THE TALENT-KEYHOLE SYSTEM MUST APPLY TO ALL WOULD-BE CONSUMERS OF RAW MATERIALS AS WELL AS FINISHED REPORTS RESULTING FROM THIS MISSION.

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INTRODUCTION

THIS IS THE SECOND IN A SERIES OF OAK REPORTS DEALING WITH PRIORITY ITEMS OF INTELLIGENCE SIGNIFICANCE APPEARING ON PHOTOGRAPHY OF MISSION 9009. THIS REPORT COVERS THE OAK-REPORTING PERIOD FROM 1500 HOURS, 26 AUGUST 1960, THROUGH 1500 HOURS, 27 AUGUST 1960.

OAK PHOTOGRAPHIC INTELLIGENCE TEAMS ARE ENGAGED IN A TWO-PHASE EXPLOITATION OF MISSION 9009. THE FIRST PHASE IS CONCERNED WITH AN INITIAL SCAN OF PHOTOGRAPHY AND AN INDEXING OF ALL ITEMS OF INTELLIGENCE SIGNIFICANCE. A COMPLETE INDEX OF INTELLIGENCE ITEMS WILL BE PUBLISHED AFTER COMPLETION OF THE OAK-REPORTING PERIOD. THE SECOND PHASE IS CONCERNED WITH A PRELIMINARY ANALYSIS OF PRIORITY ITEMS UNCOVERED IN THE INITIAL SCAN. THESE ITEMS ARE THE SUBJECT OF THE DAILY OAK REPORTS.

THE DAILY OAK REPORTS WILL CONSIST, BASICALLY, OF A BRIEF INTRODUCTION AND SUMMARY, FOLLOWED BY A LISTING OF PRIORITY ITEMS WHICH HAVE BEEN THE SUBJECT OF PRELIMINARY ANALYSIS. THESE ITEMS WILL BE REPORTED IN THE FOLLOWING PREASSIGNED CATEGORIES.

- A. GUIDED MISSILES AND ELECTRONICS
- B. NUCLEAR ENERGY
- C. AIRFIELDS
- D. MILITARY INSTALLATIONS
- E. PORTS AND HARBORS
- F. MAJOR COMPLEXES
- G. MISCELLANEOUS ITEMS

FOR PURPOSES OF CONSISTENCY, THE ABOVE CATEGORIES WILL APPEAR IN THE OAK REPORT EVERY DAY, EVEN IF NO PRIORITY ITEMS ARE LISTED WITHIN THE CATEGORY. FURTHER INFORMATION RESULTING FROM ADDITIONAL PRELIMINARY ANALYSIS OF PREVIOUSLY REPORTED ITEMS WILL BE INCORPORATED IN SUBSEQUENT OAK REPORTS.



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SUMMARY

AS OF 1500 HOURS, 27 AUGUST 1960, APPROXIMATELY 50 PERCENT OF MISSION 9009 HAD BEEN SCANNED. THIS INCLUDES 35 PERCENT OF PASS 4, 75 PERCENT OF PASS 6, 100 PERCENT OF PASS 7, 90 PERCENT OF PASS 8, AND 35 PERCENT OF PASS 9. EXTENSIVE CLOUD COVER WAS PRIMARILY RESPONSIBLE FOR THE LARGE PERCENTAGE INCREASE IN AREA SCANNED DURING THE CURRENT REPORTING PERIOD.

IT SHOULD BE NOTED THAT PRELIMINARY ANALYSIS HAS NOT BEEN COMPLETED ON ALL PRIORITY ITEMS WITHIN THE AREA SCANNED. ITEMS ON WHICH PRELIMINARY ANALYSIS HAS BEEN COMPLETED ARE INCLUDED IN THIS REPORT.

SUMMARIZED BELOW ARE THE MAJOR ITEMS OF INTELLIGENCE INTEREST.

GUIDED MISSILES

MISSILE TEST CENTER: KAPUSTIN YAR/VLADIMIROVKA
PRELIMINARY ANALYSIS OF SURFACE-TO-AIR MISSILE FACILITIES
DISCLOSES LITTLE CHANGE SINCE DECEMBER 1959 TALENT
PHOTOGRAPHY: ALL SAM FACILITIES EXCEPT THE INITIAL SAM
LAUNCH COMPLEX APPEAR ACTIVE:

OF PARTICULAR SIGNIFICANCE IS THE FACT THAT LAUNCH COMPLEX E, UNDER CONSTRUCTION IN DECEMBER 1959, MAY NOT YET BE COMPLETE AND OPERATIONAL. IN ADDITION, THE RAIL-SERVED SUPPORT AREA UNDER CONSTRUCTION AT LAUNCH COMPLEX C IN DECEMBER 1959 IS NOT YET COMPLETE, AND THE RAIL LINE IS BEING EXTENDED TO THE RANGE CONTROL CENTER.

PRELIMINARY ANALYSIS CONTINUES ON ALL AREAS EXCEPT THE SURFACE-TO-AIR MISSILE FACILITIES. RESULTS OF THESE ANALYSES WILL BE REPORTED IN FORTHCOMING OAK REPORTS.

SAM SITES

TWO NEW HEXADIC SA-2 SAM SITES UNDER CONSTRUCTION WERE CONFIRMED. THIS BRINGS THE TOTAL TO DATE TO SEVEN NEW HEXADIC SITES CONFIRMED AND FOUR POSSIBLE SITES UNDER CONSTRUCTION.

AIRFIELDS

EIGHT AIRFIELDS WITH HARD OR PARTIALLY HARD SURFACE RUNWAYS (ONLY ONE IN EXCESS OF 9,000 FEET) WERE OBSERVED DURING THE REPORTING PERIOD. IN ADDITION, SIX DIRT STRIPS OR SOD LANDING AREAS WERE OBSERVED.

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DETAILS

PRELIMINARY ANALYSIS WAS COMPLETED ON THE FOLLOWING ITEMS DURING THE CURRENT OAK-REPORTING PERIOD.

A. GUIDED MISSILES AND ELECTRONICS

1.	MISSILE	TEST	CENTER,	KAPUSTIN	YAR/VLADIMIROVK	.Α
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THE ENTIRE RANGEHEAD OF THE MISSILE TEST CENTER IS COVERED BY MISSION 9009. WHICH SHOWS RELATIVELY FEW CHANGES FROM IN SPITE OF SCATTERED CLOUDS. IT IS APPARENT THAT THE FUNCTIONAL DESIGNATIONS OF MAJOR FACILITIES GIVEN IN CIA/PIC/JB-8/60 ARE STILL VALID.

OF PARTICULAR SIGNIFICANCE IS THE FACT THAT LAUNCH COMPLEX. E. UNDER CONSTRUCTION IN DECEMBER 1959, MAY NOT YET BE COMPLETE AND OPERATIONAL. IN ADDITION, THE RAIL-SERVED SUPPORT AREA UNDER CONSTRUCTION AT LAUNCH COMPLEX C. IN DECEMBER 1959 IS NOT YET COMPLETE, AND THE RAIL LINE IS BEING EXTENDED TO THE RANGE CONTROL CENTER. THE EVIDENCE OF RUNWAY CONSTRUCTION IN DECEMBER 1959 EAST OF VLADIMIROVKA AIRFIELD IS CONFIRMED. THE COMPLETED RUNWAY, WHICH IS STILL UNDER CONSTRUCTION, WILL BE AT LEAST 8,200 FEET LONG.

RESULTS OF THE PRELIMINARY ANALYSIS OF THE SAM LAUNCH FACILITIES ARE INCLUDED IN THIS PART OF THE OAK REPORT. DETAILS ON OTHER FACILITIES IN THE MISSILE TEST CENTER WILL BE COVERED IN SUBSEQUENT PARTS OF THE REPORT.

THE SURFACE-TO-AIR MISSILE FACILITIES, LOCATED NORTH OF KAPUSTIN YAR, ARE VIRTUALLY UNCHANGED SINCE DECEMBER 1959 (SEE CIA/PIC/JR-14/60). THE ONLY NEW CONSTRUCTION EVIDENT IS ONE BUILDING LOCATED IN THE SW CORNER OF THE R & D LAUNCH AREA. THE ONLY OTHER CHANGE NOTED IS A FIREBREAK AND PROBABLE SECURITY FENCE WHICH NOW ENCLOSE INSTRUMENTATION/CONTROL SITE 8, SOUTH OF THE NEW-TYPE SAM LAUNCH AREA.

ALL SAM FACILITIES EXCEPT THE INITIAL SAM LAUNCH COMPLEX

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APPEAR ACTIVE, AND EQUIPMENT IS VISIBLE ON THE FIVE PADS IN THE MARSHALING AREA. HOWEVER, THE FOUR TENT AREAS APPEAR UNOCCUPIED.

2. HEXADIC SA-2 SAM SITES

A TOTAL OF 8 SA-2 SAM SITES AND 1 SAM SUPPORT FACILITY HAVE BEEN IDENTIFIED IN THE VICINITY OF STALINGRAD DURING THE CURRENT REPORTING PERIOD. A TABULATION OF THE SAM SITES FOLLOWS.

SITE NO	COORD	DISTANCE/DIRECTION FROM STALINGRAD	STATUS
1	49 Ø1N - 44 59E	25 NM NE	MID-STAGE CONST
2*	48 59N - 44 4ØE	17 NM NNE	COMPLETE
3*	48 51N - 44 19E	11.5 NM NW	COMPLETE
4 *	48 40N - 44 10E	14.5 NM WSW	COMPLETE
5 *	48 27N - 44 19E	18 NM SSW	COMPLETE
6	48 17N - 44 38E	25 NM SSE	MID-STAGE CONST
7*	48 27N - 44 5ØE	20 NM SE	COMPLETE
* 8	48 43N - 44 55E	16 NM E	COMPLETE
	* PREVIOUSLY IDENTI	IFIED ON TALENT PHOTOGRAF	ΡΉΥ

THE SAM SUPPORT FACILITY, WHICH IS COMPLETE, IS LOCATED AT 48 52N - 44 38E, 10 NM NE OF STALINGRAD. THIS FACILITY WAS PREVIOUSLY IDENTIFIED ON TALENT PHOTOGRAPHY.

3. LIMITED COVERAGE OF THE URALS AREA COUPLED WITH COMPLETE OVERCAST IN THE AREA COVERED PREVENTED A SEARCH FOR ICBM LAUNCH SITES.

B. NUCLEAR ENERGY

NO ITEMS DURING THE CURRENT REPORTING PERIOD

C. AIRFIELDS

AS ANTICIPATED IN OAK 9009 - PART 1, NEW MATERIALS HAVE PERMITTED A GENERALIZED COUNT OF AIRCRAFT IN SOME INSTANCES. WHERE THIS HAS BEEN POSSIBLE, THE GENERALIZED COUNT HAS BEEN LISTED BELOW UNDER THE APPROPRIATE AIRFIELD.

	or Release	
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•	· +•	ABGANEROVO AIRFIELD 48 Ø9N - 44 Ø7E
		4,500 X 3,900 FT SOD LANDING AREA (MEASUREMENTS FROM ASSOTW)
	2.	ATBASAR AIRFIELD 51 50N - 68 20E
		5,000 X 1,000 FT SOD LANDING AREA (MEASUREMENTS FROM ASSOTW)
	3.	KAPUSTIN YAR AIRFIELD 48 40N - 45 44E
		3,500 X 300 FT E/W SOD RUNWAY (MEASUREMENTS FROM TALENT PHOTOGRAPHY OF
		1 LARGE AIRCRAFT OF UNDETERMINED TYPE ON S SIDE OF RUNWAY.
	4•	KOSTROMA AIRFIELD 57 48N - 41 00F
	L	5.200 X 280 FT RUNWAY ORIENTED NW/SE
		(MEASUREMENTS FROM TALENT PHOTOGRAPHY OF
		RUNWAY SURFACE ON TALENT PHOTOGRAPHY APPEARED TO BE 3,300 FT CONCRETE AND 1,900 FT DIRT. NO APPARENT CHANGE FROM TALENT PHOTOGRAPHY.
	5•	KYZYL-AGACH AIRFIELD 39 ØØN - 48 48E
	1	· ·

MAIN RUNWAY VISIBLE. THE REPORTED SECONDARY RUNWAY IS COMPLETELY OBSCURED BY CLOUDS. 8. SREDNYAYA AKHTUBA AIRFIELD 48 44N - 44 52E SOD LANDING AREA 3 NATURAL-SURFACE RUNWAYS WERE APPARENT ON TALENT PHOTOGRAPHY OF	OAK 9009 Date of	9 - Part 2 Par No. 588/60-KH Info. 29 August 1960
(MEASUREMENTS FROM KEYHOLE MISSION 9009) POSSIBLE PLANNED EXTENSION OF RUNWAY SUGGESTED BY CLEARING OF 1.800 FT AND 3.000 FT ON EITHER END OF RUNWAY. NO OTHER APPARENT CHANGES SINCE TALENT PHOTOGRAPHY OF 7. SALYANY AIRFIELD 39 39N — 48 59E 6.600 X 260 FT E/W CONCRETE RUNWAY 3.300 X 260 FT NE/SW CONCRETE RUNWAY (MEASUREMENTS FROM ASSOTW) AIRFIELD IS 80 PERCENT CLOUD—COVERED, WITH ONLY W END OF MAIN RUNWAY VISIBLE. THE REPORTED SECONDARY RUNWAY IS COMPLETELY OBSCURED BY CLOUDS. 8. SREDNYAYA AKHTUBA AIRFIELD 48 44N — 44 52E SOD LANDING AREA 3 NATURAL—SURFACE RUNWAYS WERE APPARENT ON TALENT PHOTOGRAPHY OF BUT THESE ARE NOT DISCERNIBLE ON THE KEYHOLE PHOTOGRAPHY.	6.	
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3 NATURAL-SURFACE RUNWAYS WERE APPARENT ON TALENT PHOTOGRAPHY OF		48 44N - 44 52E
PHOTOGRAPHY OF		SOD LANDING AREA
the state of the s	·	PHOTOGRAPHY OF BUT THESE ARE NOT
48 47N 44 21E	9•	STALINGRAD GUMRAK AIRFIELD 48 47N - 44 21E
6,500 X 300 FT ENE/WSW RUNWAY 6,400 X 300 FT SE/NW DIRT RUNWAY (MEASUREMENTS FROM TALENT PHOTOGRAPHY OF		6,400 X 300 FT SE/NW DIRT RUNWAY

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10.	TASHKENT AIRFIELD 41 18N - 69 19E
	4,500 X 210 FT NE/SW CONCRETE RUNWAY (MEASUREMENTS FROM TALENT PHOTOGRAPHY OF AUGUST 1957)
	11 LARGE PROBABLE AIRCRAFT OF UNDETERMINED TYPE LOCATED IN PARKING AREAS. 3 OF THESE ARE SOMEWHAT LARGER THAN THE OTHERS. ALL ARE AT LEAST OF TWIN-ENGINE SIZE.
,11•	TASHKENT SOUTH AIRFIELD 41 15N ~ 69 16E
	9,800 X 200 FT E/W CONCRETE RUNWAY (MEASUREMENTS FROM TALENT PHOTOGRAPHY OF AUGUST 1957)
	7 LARGE PROBABLE AIRCRAFT OF UNDETERMINED TYPE LOCATED IN PARKING AREA. 3 OF THESE ARE POSSIBLY SWEPT-WING.
12.	VOLOGDA AIRFIELD 59 21N - 39 49E
	3,450 X 320 FT NE/SW CONCRETE RUNWAY (MEASUREMENTS FROM ASSOTW)
	A DIRT RUNWAY 3,650 X 270 FT REPORTED IN ASSOTW IS NOT VISIBLE ON THE PHOTOGRAPHY.
13.	VOLOGDA NORTH AIRFIELD 59 18N - 39 51E
	SOD LANDING AREA
14.	VOLGODA NORTHEAST AIRFIELD 59 16N - 39 55E
	SOD LANDING AREA
15•	AIRFIELDS PREVIOUSLY REPORTED BUT NOT LOCATED OR CLOUD-COVERED
	DZAUDZHIKAU AIRFIELD

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	SUDERMES AIRFIELD 42 23N - 46 06E			÷
	ORDZHONIKIDZEVSKAY 43 19N - 45 Ø1E	YA AIRFIELD		
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• MTI IT	TION THOTALLATIONS	-		
D. MILIE	TARY INSTALLATIONS	<u>.</u>		
	DZHAMBUL MILITARY 42 54N - 71 23E	AREA	· · · · · · · · · · · · · · · · · · ·	
			•	
	THE BARRACKS AREA • RELATIVELY UNCHANG		• AND MOTOR POOL APP T PHOTOGRAPHY	EAR
	AMYSHIN OFFICERS	TANK TRAINING S	SCHOOL	
	50 05N - 45 24E			
. <u>N</u>	O APPARENT CHANGE	ES FROM TALENT F	>HOTOGRAPHY	
E. PORTS	AND HARBORS			
NO I	TEMS DURING THE C	JURRENT REPORTIN	1G PERIOD	
F MA.IOR	COMPLEXES			
F • PROSE	COMPLEXES			
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	DAG TO COMPLETELY		DUD-FREE PHOTOGRAPHY	_

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2.	CHEREPOVETS 59 Ø7N - 37 55E
	CHEREPOVETS IS APPROXIMATELY 65 PERCENT CLOUD-COVERED. COMPARISON WITH TARGET MOSAIC Ø154-9985-25MA SHOWS SUBSTANTIAL RESIDENTIAL GROWTH IN CLOUD-FREE AREAS SINCE WORLD WAR II. REPORTED HIGHWAY BRIDGE ACROSS SHEKSNA RIVER DOES NOT EXIST. AREA OF REPORTED ALUMINUM PLANT IS CLOUD-COVERED.
3.	CHIMKENT 42 20N - 69 37E
	CHIMKENT IS COMPLETELY COVERED BY CLOUD-FREE PHOTOGRAPHY. THERE HAS BEEN RELATIVELY LITTLE CHANGE SINCE TALENT PHOTOGRAPHY OF A PROBABLE STORAGE SITE.
4•	RAIL-SERVED; HAS BEEN ADDED IN THE W PORTION. NO EXPANSION NOTED IN THE SE INDUSTRIAL COMPLEX AREA. MODERATE RESIDENTIAL EXPANSION TO THE ENE; N; AND NW. DZHAMBUL 42 54N - 71 23E
	DZHAMBUL IS COMPLETELY COVERED BY CLOUD-FREE PHOTOGRAPHY. THERE HAS BEEN RELATIVELY LITTLE CHANGE SINCE TALENT PHOTOGRAPHY ONE BUILDING APPROXIMATELY 200 X 100 FT HAS BEEN ADDED TO THE SUPERPHOSPHATE PLANT SINCE 1957.
5.	DZHEZKAZGAN 47 48N - 67 44E
	DZHEZKAZGAN IS COMPLETELY COVERED BY CLOUD-FREE PHOTOGRAPHY. THERE IS NO APPARENT CHANGE SINCE TALENT PHOTOGRAPHY
6.	KAMYSHIN 50 05N - 45 24F
	KAMYSHIN IS COMPLETELY COVERED, BUT THERE ARE SCATTERED CLOUDS THROUGHOUT THE AREA. THERE HAS BEEN NO APPARENT SIGNIFICANT CHANGE SINCE TALENT PHOTOGRAPHY

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7.	• YAROSLAVL 57 37N - 39 53E
	YAROSLAVL IS COMPLETELY COVERED, BUT SCATTERED CLOUDS OBSCURE APPROXIMATELY 50 PERCENT OF THE CITY. THERE APPEARS TO HAVE BEEN CONSIDERABLE EXPANSION OF BOTH INDUSTRIAL AND RESIDENTIAL AREAS SINCE WORLD WAR II GERMAN PHOTOGRAPHY. HOWEVER, CLOUD COVER PRECLUDES DETERMINATION OF THE EXTENT OF EXPANSION.
8•	THE FOLLOWING PRIORITY 1 TARGETS WERE CLOUD-COVERED AT THE TIME OF PHOTOGRAPHY
	KIROVABAD 40 41N - 46 22E
	PETROZAVODSK 61 49N - 34 2ØE
	GROZNYY 43 19N - 45 42E
	MAKHACHKALA 42 58N - 47 27E
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MINING ACTIVITY, A PROBABLE PRIMARY CRUSHING MILL, AND ASSOCIATED HOUSING AND SUPPORT FACILITIES ARE IN THE MOUNTAINS NW OF ANGREN. ROAD LEADS FROM AREA, DOWN RIVER VALLEY, TO ANGREN. NO APPARENT CHANGE SINCE TALENT PHOTOGRAPHY OF AUGUST 1957.

ERRATA TO OAK 9009 - PART 1

CATEGORY C. ITEM 10. CHANGE

DZHAMBUL WEST AIRFIELD 42 51N - 71 22E TO READ

DZHAMBUL EAST AIRFIELD

42 53N - 71 26E

INTA AIRFIELD 3N - 60 03E TO READ

INTA AIRFIELD 66 Ø3N - 60 Ø3E